ΠTouch

User Manual

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1. Product Introduction

1.1 Introduction to Infinitus Control Π Touch

ΠTouch is a cloud-manageable software platform, built on a standard network architecture, fully self-developed, and an open software ecosystem.

ΠTouch is a powerful and easy-to-use central control software suitable for a variety of scenarios such as modern smart homes, industrial Internet of Things, theaters, banquet halls, lecture halls, conference rooms, audio-visual rooms, and cultural tourism.

It supports remote control via wired and wireless networks, is compatible with multiple
communication protocols, and provides a highly customized editing interface to receive
status feedback from the IoT host in real time.

1.2 Infinitus Control Π Touch Function Features

·Highly Customizable Interface
Provides an intuitive drag-and-drop interface design tool, allowing users to freely design control panels, adjust layouts, icons, and functions, and create a personalized interface with no prior experience required.
·Multi-Protocol Compatibility
Supports multiple communication protocols such as TCP, UDP, WebSocket, OSC, Modbus, RTSP, RS-232, and RS-485.
· Data Types
Support sending and receiving UTF-8, Hex, Int, Float, Double and other data types to meet the needs of different devices and applications.
·Preset Templates
Switch between different templates with one click, send multiple data protocols with one click, to meet various usage needs.
·Multi-Control Terminal Interaction
Supports multi-control terminals to work together as a large control platform.
·Efficient Integration Capability
It can seamlessly integrate with various systems such as smart home, industrial automation, stage lighting, audio-visual equipment, etc., for integrated control.
·Remote Control

The software does not require a central control system host device and can be installed through computers, mobile phones and tablets to achieve remote control functions.

• Flexible Connectivity

Devices can be connected via Wi-Fi or Ethernet, adapting to various network environments to ensure stable and reliable control.

• Online Publishing

Connect to the network through the editing side, and support remote publishing to the tablet for use.

• Timing and Scheduling

Supports custom timed tasks and batch scheduling tasks for automated device control.

• Real-Time Status Feedback

Real-time monitoring of device operating status, including on/off status, parameter settings, and connection status, for timely maintenance of device states.

• RTSP Streaming Media

Integrated with RTSP protocol, supporting connection and playback of surveillance cameras and video conferencing equipment.

• Smart Home Extension

Seamlessly integrates with popular smart home platforms such as Xiaomi Mi Home, Tuya Smart, eWeLink, BroadLink, Midea, and EZVIZ.

1.3 Infinitus Control Π Touch | Π Touch Designer Product Diagram

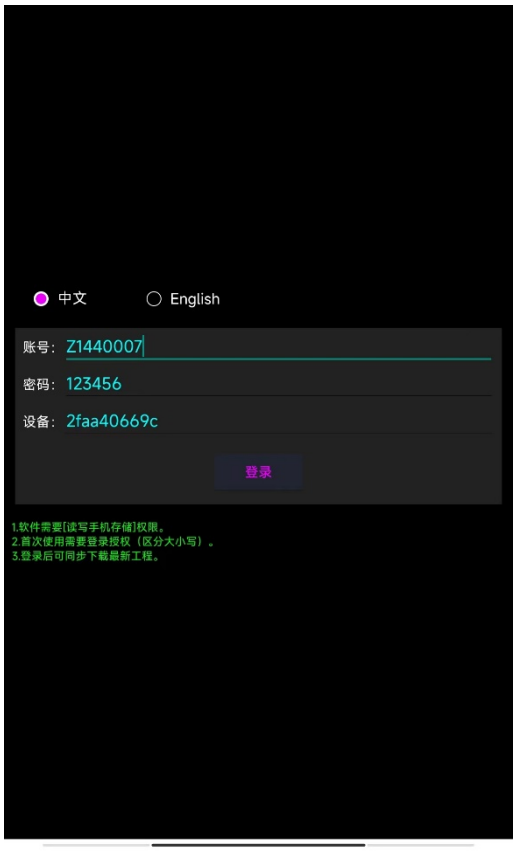
1.4 Infinitus Control Π Touch Product Parameters

Operating System	windows 8/10/11; Android system and HarmonyOS system	Network Protocol	RTSP,OSC,UDP,TCP,WebSocket,Modbus
Interface Language	Supports both Chinese and English	Customization	Highly customizable interface layout
Communication Method	Wired, wireless (wifi)	Compatible Devices	Supports various IoT devices and hosts compatible with the above protocols.
Data Type	Supports UTF-8 GBK、Hex、Int、Float、Double		

2. User Manual for Π Touch

2.1 Π Touch Update Project

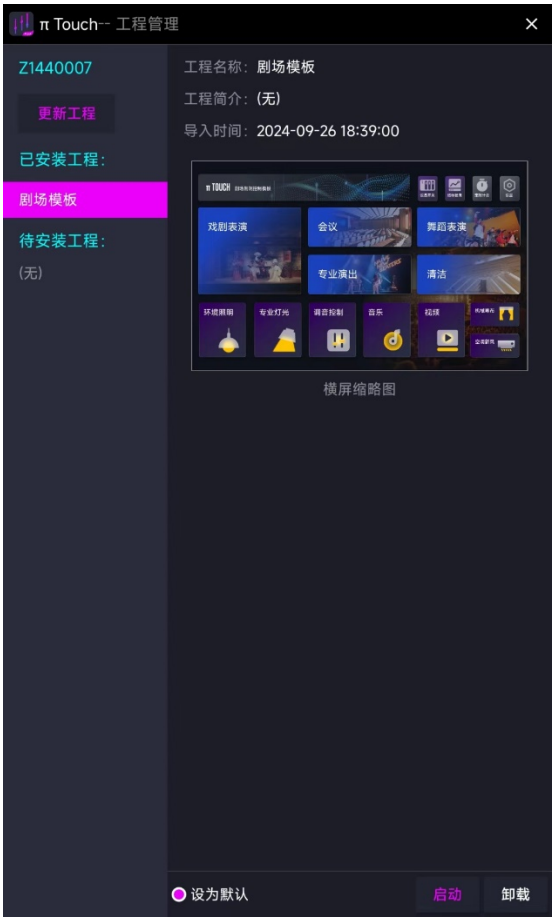
For the first time using the software, you need to fill in your account and password, and click login.



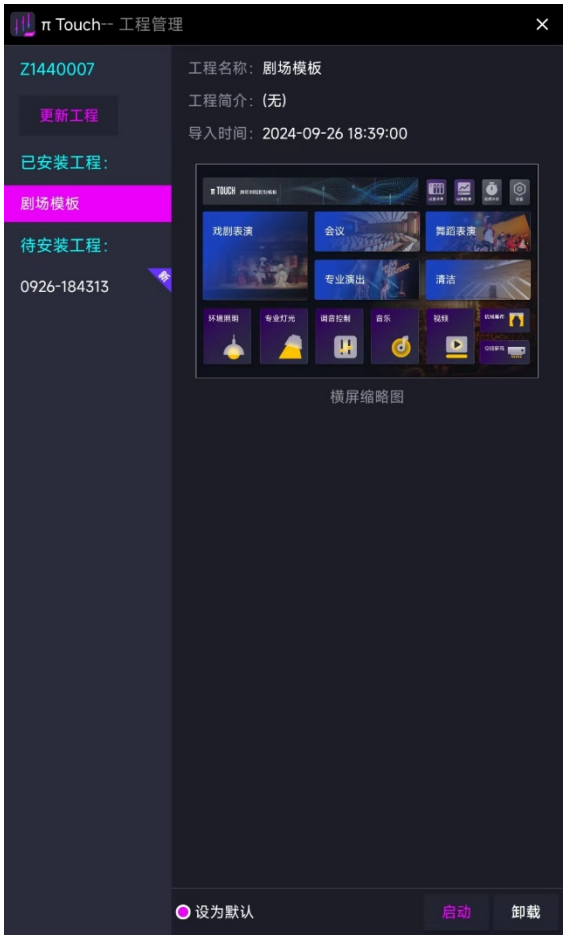
After successful login, you will enter the default project.

Click the "Settings" button to switch between manual or automatic screen rotation, switch between Chinese and English, and exit the app.

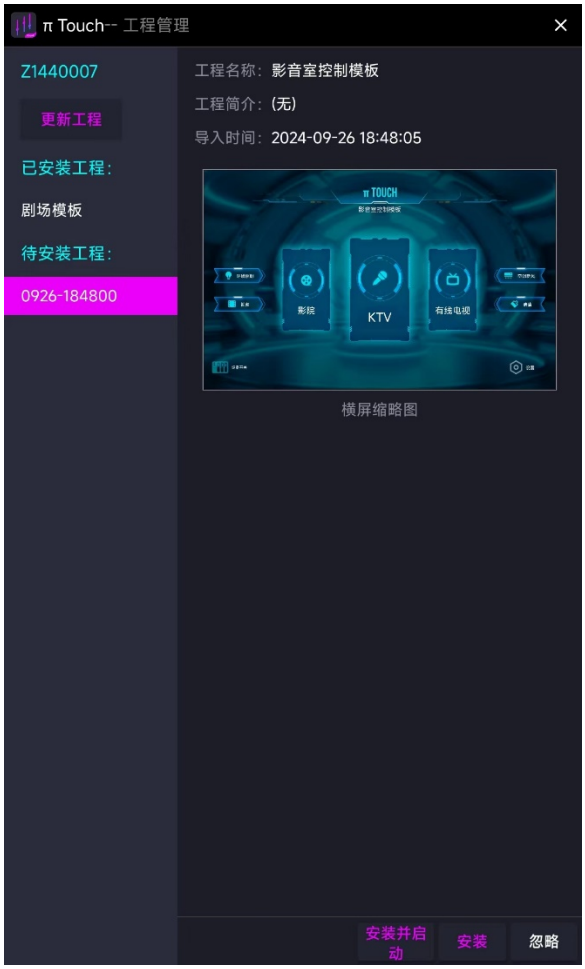
Select 'Manage Projects' to enter the project management interface, where you can preview the main page of the project on the right side



Click on 'Update Projects' to update the projects recently uploaded to this account. (Requires internet access)



Select the new project in the "Projects to be Installed" section and click "Install".

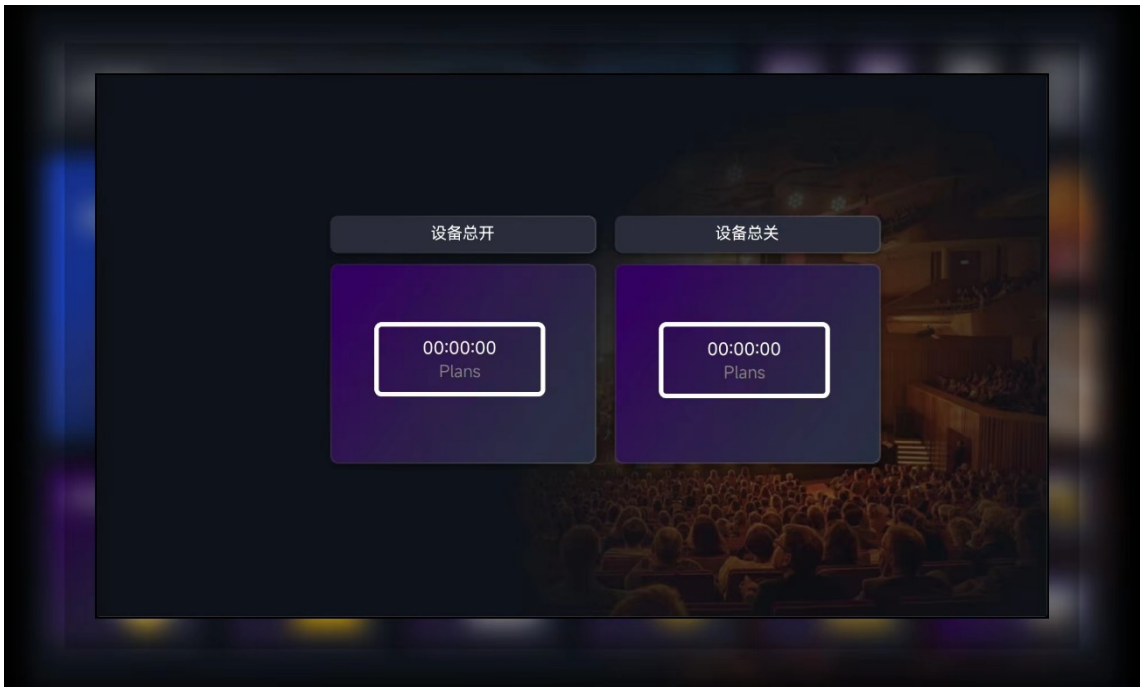


Click "Set Default" below to open this project by default after restarting the app.

Click on start to enter the main interface of the project, where you can operate various components edited in the Π Touch Designer.

2.2 Use of ΠTouch Components

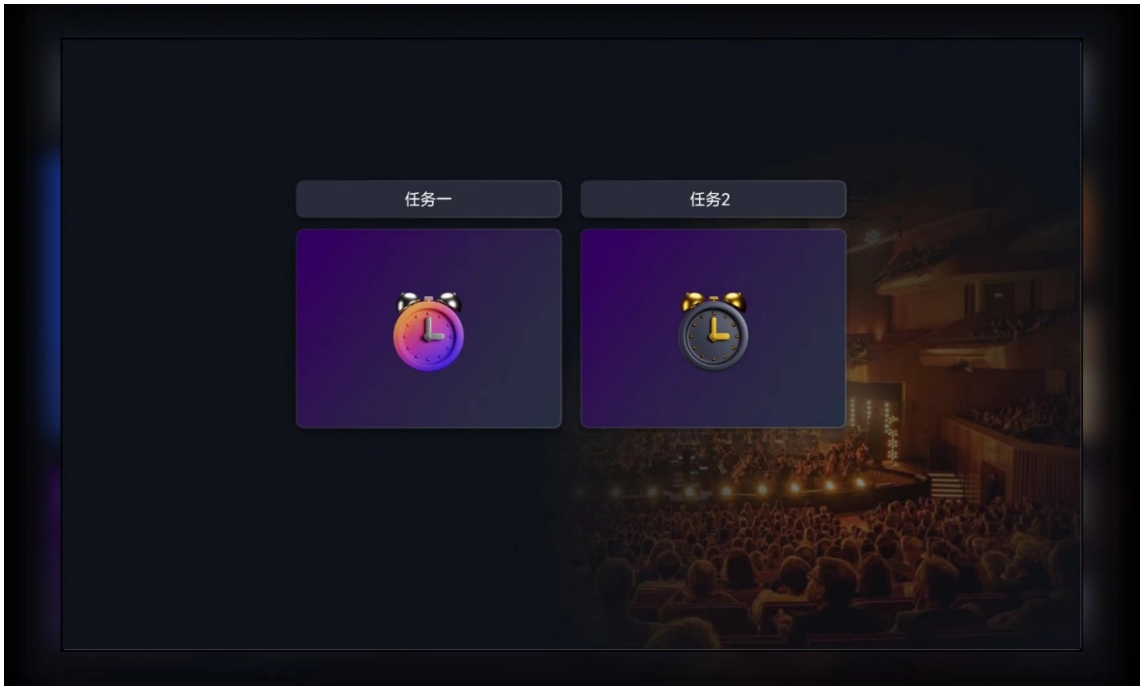
Click the "Device Switch" button to open a pop-up window, and click the "Task Plan" component to execute the overall on/off of the device.



Click the "Operation and Maintenance Monitoring" button to open a pop-up window. Here, the "Operation and Maintenance Monitoring" component can be used to monitor real-time parameters such as temperature and voltage of professional lights and amplifiers.

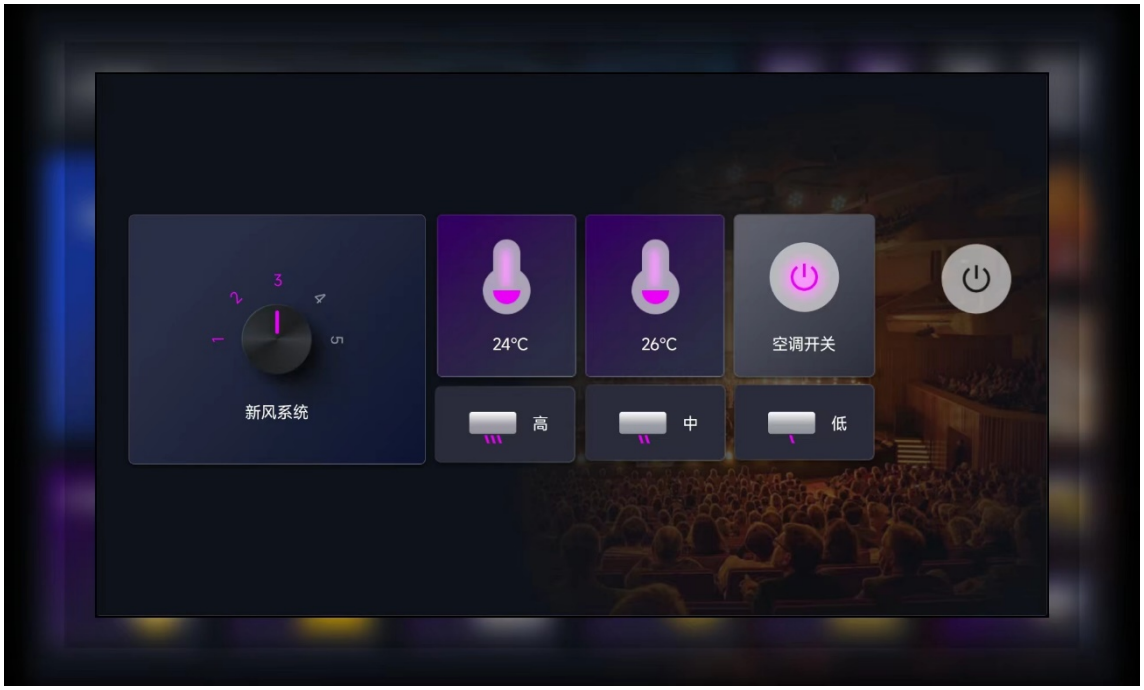
Click the "Ambient Lighting" button to open a pop-up window. Click the "Switch" element to control the ambient light on/off. Drag the "Slider" element to adjust the ambient light brightness. Click the "Task Schedule" to trigger the corresponding light brightness and effect mode.

Click the "Timer Plan" button to open a pop-up window, click the "Timer" component to start executing, and the scene will be automatically triggered when the time is up.



Open the "Tuning Control" pop-up window and pull the "slider" component to control the corresponding push rod of the mixing console equipment.

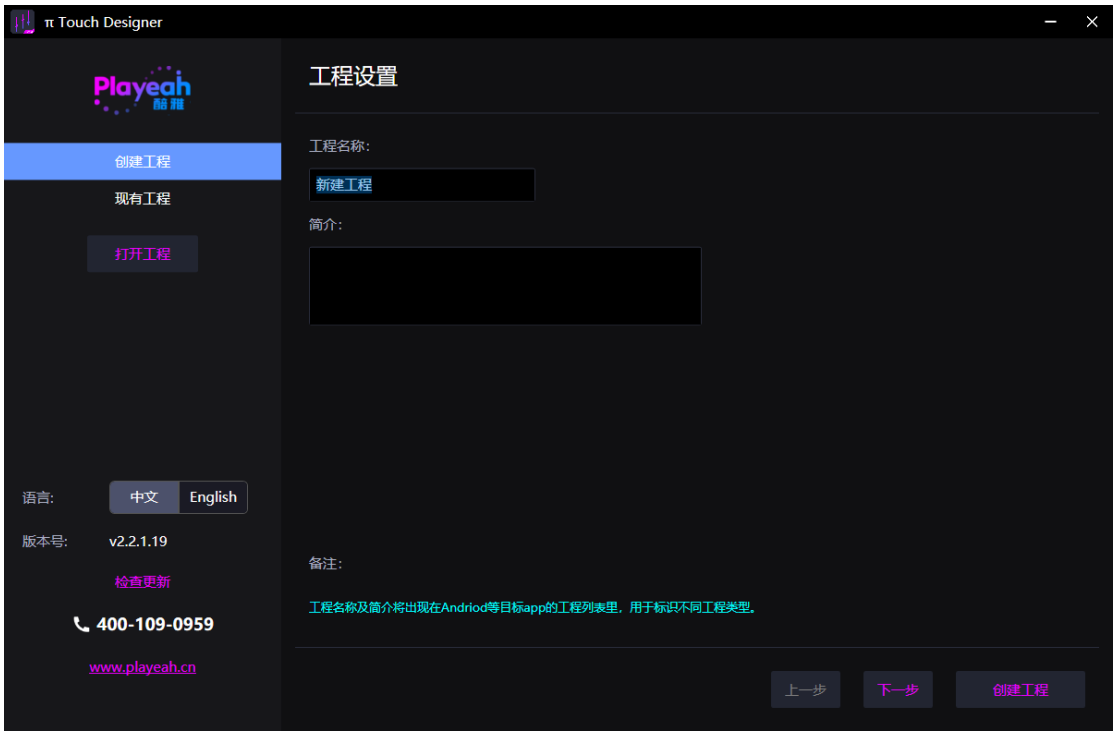
Open the "Air conditioning fresh air" pop-up window, click the "knob" component to control the fresh air gear, and control the temperature, air speed, and switch of the air conditioner by clicking the "button" component.



3. ΠTouch Designer User Guide

3.1 Creating a Project in ΠTouch Designer

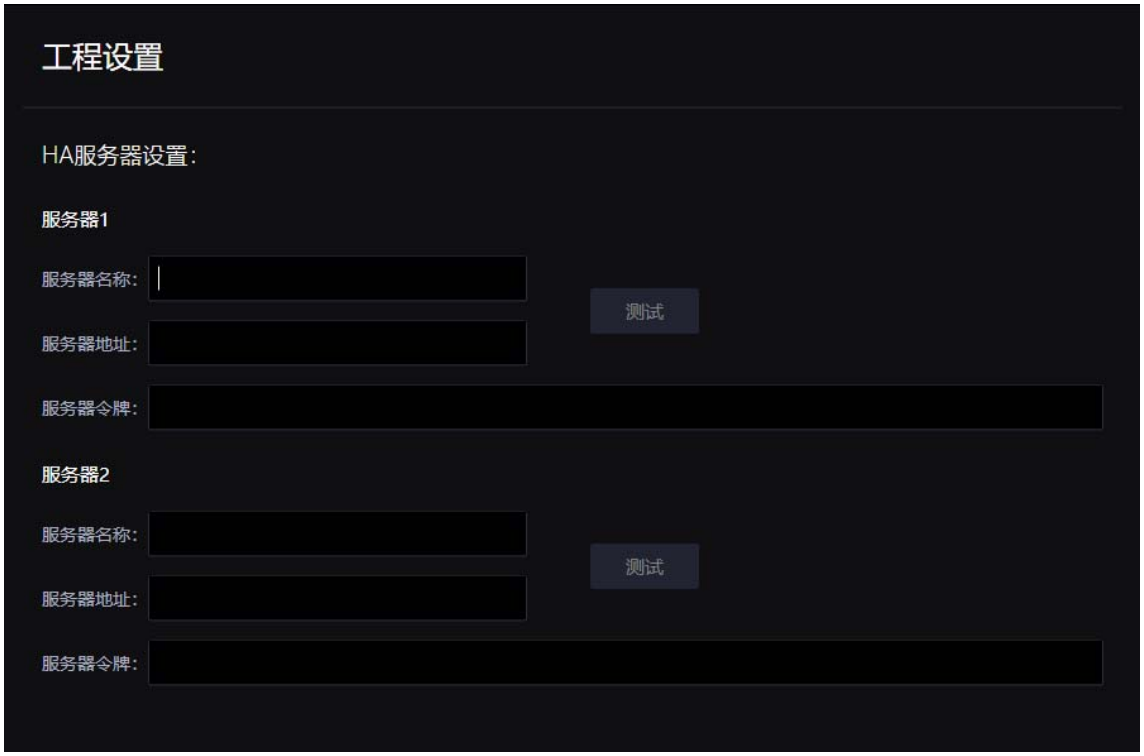
The initial interface of the PC editing terminal for Infinite Control is as
follows:



Enter the project name and introduction.

Click Next to set the layout, including the resolution, vertical and horizontal directions, cell size and number of the mobile device. You can preview it and click Next after setting.

Set the server name, address, and token for the project. (There is no direct way to create a project).



Click on 'Create Project' to enter the editing interface of the project.

Set the project name and introduction here

: Saved Π Touch project

Open projects from other paths, such as projects on USB drives, etc

Click to update online

3.2 Π Touch Designer interface settings

3.2.1 Panel Settings

After the project is created, enter the panel editing settings interface and customize the operation interface according to your needs.

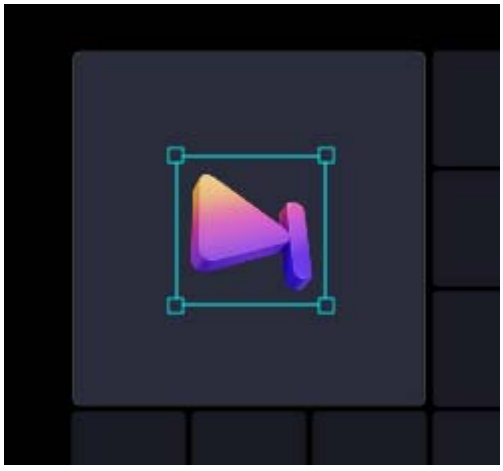
Click on any square at any position, set the starting position, number of rows, and number of columns of the cell on the right side, and click add panel after setting.

To modify a panel, click on the panel you want to modify  , adjust the size and position parameters of the panel on the right, click 'Adjust Now', or perform operations such as canceling adjustments or deleting panels.

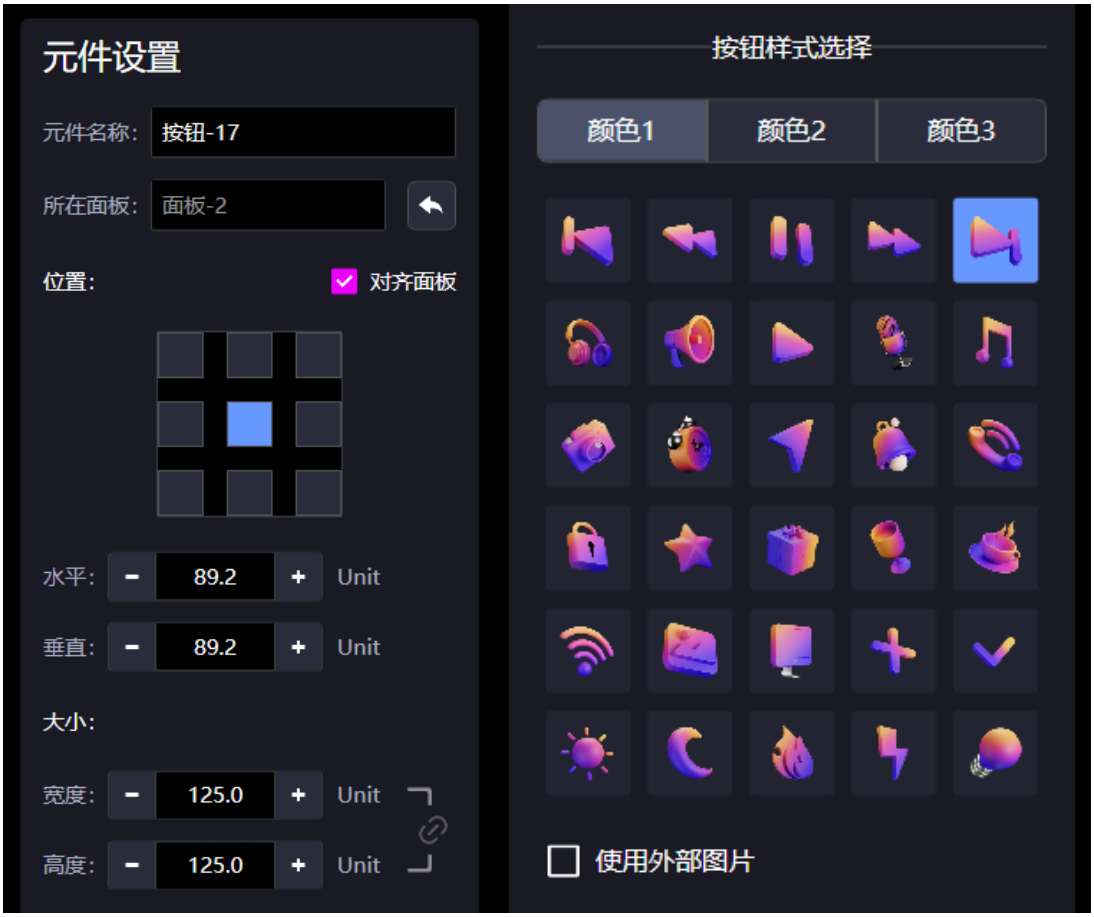
3.2.2 Adding Components

On the left side, panel components such as images and text can be added; Combination knob and slider; Built in buttons or other components.

Click on the component you want to add, and then click on the panel position you want to place it on to add the component.



After adding, the position, size, and other properties of the component can be changed on the right side.

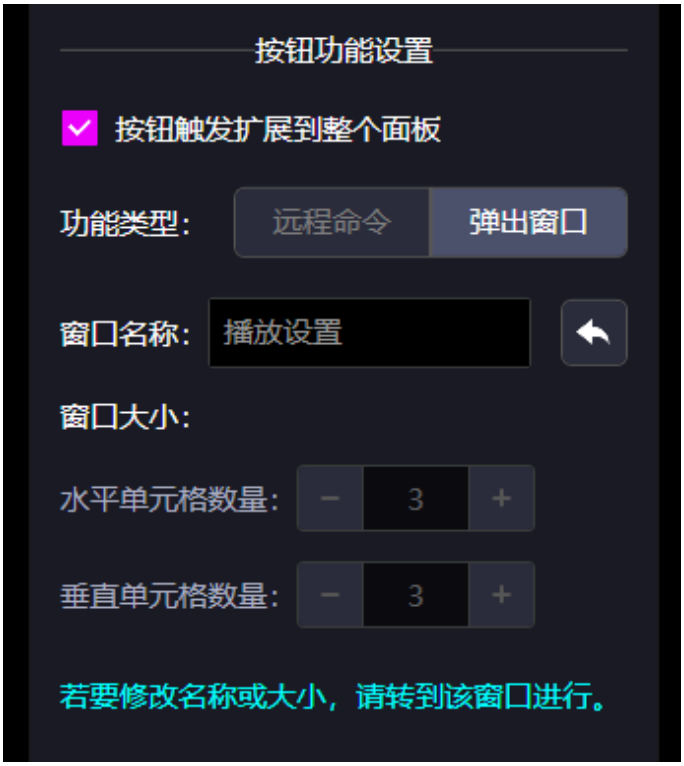


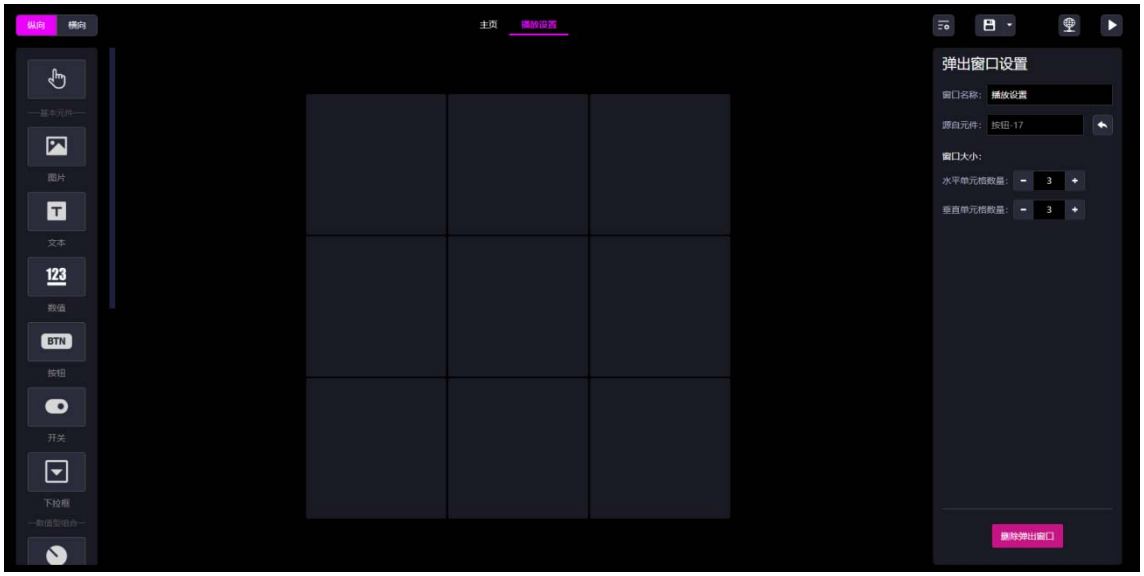
3.2.3 Component Function Settings

Click on the component and select the function type from the dropdown menu on the right to set the function of the component.

Click on the remote command function of the component and fill in the device's IP address, port, and protocol command.

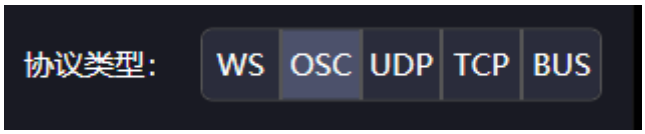
Click the pop-up window function of the component to set the size and name of the pop-up window, and then continue to set the pop-up window interface.





3.2.4 fill in the agreement

The Ⅱ Touch designer mainly controls settings through five types of protocols.



Click on OSC and fill in the IP address and port of the target device.

Fill in the OSC command for the target device

Click 'Write Test' to send a command to the target device to test if it is under control. After clicking, the "Test Results" below can clearly show the data and type sent, the target IP address, port, and the completion status of the transmission.

Additionally, there are 4 types of protocol filling formats: WebSocket

UDP

Hex: Hex: When checked, data is entered in hexadecimal format; when unchecked, it defaults to ascii code.

TCP

Keep connected: Check for TCP long connection and uncheck for short connection.

ModBus

Slave ID: The target device's slave station ID.

3.2.5 Engineering Settings

Click the button on the right  to set up the project. You can reset the device screen size, horizontal and vertical orientation, number of cells, etc. You can also set up the Websochet server and test it.

3.2.6 Save and Publish

Click on the top right corner  to save the project, or click  to save it as another path, etc.

Click  to test the pre-set project.

Click  to publish to a mobile device for use. The computer must be connected to the internet.

If you have any questions and need technical assistance, please scan the following WeChat customer service QR code to contact us.